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DERWENT-ACC-NO: 1970-19832R
 DERWENT-WEEK: 197012
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TITLE: Catalyst for co oligomerisation of butadiene and ethy - lene

PATENT-ASSIGNEE:

ASSIGNEE

TOYO RAYON CO LTD

CODE

TORA

PRIORITY-DATA: 1965JP-0025581 (May 1, 1965)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 70007522 B

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ABSTRACTED-PUB-NO: JP 70007522B

BASIC-ABSTRACT:

Butadiene is reacted with ethylene, in the presence of catalyst which consists of
 (1) metal complex of general formula:- (where M is Ni or Co, Ph is phenyl radical)
 and (2) organic Al cpd. of general formula R3Al or A2AlX (where R is hydrocarbon
 radical; X is halogen atom.

Hexadiene and n-decatriene as cooligomers can be obtained in high yield when
 butadiene is reacted with ethylene in the presence of this combined catalyst.
 Metal-bis-dithiobenzyl complex in which S atom is bonded to Ni or Co, the first
 constituent of the catalyst, shows different performance from the conventional
 catalyst system, as 1,3-hexadiene and cyclodecadiene are obtd. as cooligomers when
 catalyst consisting of cpd. in which halogen, oxygen or nitrogen is bonded to
 transition metal, esp. Co or Ni, with organic Al cpd. is used.

TITLE-TERMS: CATALYST CO OLIGOMERISE BUTADIENE

DERWENT-CLASS: A12 E12

CPI-CODES: A01-B03; A01-C05; A02-A06; A04-B05; A04-G08; A10-B08; E05-B; E05-L02;

CHEMICAL-CODES:

Chemical Indexing M3 *1*

Fragmentation Code

H4 M121 M135 A428 A960 Q110 A430 A427 G130 M532

H496 M630 N310 N310 Q121 M510 M520 M540 M780 M760

M781 M782 R004 M411 M901

Chemical Indexing M3 *2*

Fragmentation Code

A41 M2 M21 Q101 M530 M530 M530 M530 M530 M530 M530 M530

A428 M117 M335 M335 M335 M335 M335 M335 M335 M335 M335

N411 Q121 M510 M510 M530 M540 M780 M780 M780 M780 M780

M411 M411

Chemical Indexing M3 *03*

Fragmentation Code

H7 M610 H711 H722 H723 M232 M233 M331 M333 N610
M310 Q110 Q120 M510 M520 M530 M540 H720 M410 M901

Multipunch Codes: 01- 041 046 054 117 125 127 134 174 263 278 284 287 689 693 723 01- 039 041
046 047 117 122 278 284 287 680 689 691 693

Number	Hits	Search Text	DB	Time stamp
1	337800	oligomeris6 or dimeris6 or trimeris6 or polymeris6	USPAT; US-PGPUB	2003/02/05 08:45
2	573	dithiolene\$1 or dithiolate\$1 or enedithiolate\$1	USPAT; US-PGPUB	2003/02/05 08:46
9	325	oligomeris6 or dimeris6 or trimeris6 or polymeris6 and dithiolene\$1 or dithiolate\$1 or enedithiolate\$1	USPAT; US-PGPUB	2003/02/05 08:31
10	100390	oligomeris6 or dimeris6 or trimeris6 or polymeris6	USOCP	2003/02/05 08:48
11	40	dithiolene\$1 or dithiolate\$1 or enedithiolate\$1	USOCP	2003/02/05 08:47
12	13	oligomeris6 or dimeris6 or trimeris6 or polymeris6 and dithiolene\$1 or dithiolate\$1 or enedithiolate\$1	USOCP	2003/02/05 08:46
13	245	dithiolene\$1 or dithiolate\$1 or enedithiolate\$1	EPO; JPO; DERWENT	2003/02/05 08:48
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15	22	(dithiolene\$1 or dithiolate\$1 or enedithiolate\$1) and oligomeris6 or dimeris6 or trimeris6 or polymeris6	EPO; JPO; DERWENT	2003/02/05 08:46